

**Product Name :**  
Analog Control System

**Product Code :**  
CON-LABAST-004



**Description :**

Analog Control System, We are manufacturer, supplier, exporter and solution provider in quality Analog Control System

**Technical Specification :**

Analog Control System , cover with many technical disciplines, explicates the central significance of Analog Control System. This applies particularly in mechanical and electrical engineering, in production and process technology. It is indispensable to plant and system technology.

In the automation field, important optimization tasks would be quite impossible to be accomplished without closed-loop control technology. In line with its increasing importance, closed-loop control has become an essential subject in professional training and further education for many professions.

In the newly formulated training curriculum, this technology plays an important role covering a number of subjects in syllabuses for training in industry and the crafts. Laplace transform experiment

- System simulation experiment
- Steady-state error experiment
- First-order system experiment
- Second-order system experiment
- Transient response specifications experiment
- Effects of zeros on first-order system experiment

- Effects of zeros on second-order system experiment
  - Dominant pole of second-order system experiment
  - DC Servo motor characteristics experiment
  - Proportional controller experiment
  - P controller in DC servo motor speed / position control experiment
  - Integral controller experiment
  - I controller in DC servo motor speed / position control experiment
  - Derivative controller experiment
  - D controller in DC servo motor speed / position control experiment
  - Proportional-integral (PI) controller experiment
  - PI controller in DC servo motor speed / position control experiment
  - Proportional-derivative (PD) controller experiment
  - PD controller in DC servo motor speed / position control experiment
  - PID controller experiment (1) Ziegler-nichols method (1)
  - PID controller experiment (2) Ziegler-nichols method (2)
  - PID controller experiment (3) Position control
  - PID controller experiment (4) Speed control
  - Closed loop DC servo motor speed / position control with PID controller experiment
  - Inner-loop feedback control experiment
  - Phase lead compensators experiment (1) Root locus technique
  - Phase lead compensators experiment (2) Frequency domain design
  - Phase lag compensators experiment (1) Root locus technique
  - Phase lag compensators experiment (2) Frequency domain design
  - Phase lead-lag compensators experiment (1) Root locus technique
  - Phase lead-lag compensators experiment (2) Root locus technique
  - Phase lead-lag compensators experiment (3) Frequency domain design
  - Pole-zero cancellation experiment
  - State feedback pole assignment experiment
- Control engineering is an exciting discipline. It offers the quickest and best way to learn system control to improve production processes. Electronic analog control and simulation have become the cornerstone of technological advancement. K&H provides for students to observe the testing result of Proportional-Integral-Derivative (PID) controllers as well as phase-lag and phase-lead controllers.
- Modularized is flexible enough to cater to the needs of all level learners to make related experiments.
  - The whole control modules help students to understand control theory and application of hands-on motor control through our comprehensive and step-by-step teaching curriculums.
  - We also provide PC based digital storage oscilloscope module as interface to facilitate data storage and analysis from computer. (Option)



## **Astra Scientific**

www.astrascientific.com, **Email:** info@astrascientific.com

**Address:** K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265